# React & AJAX example with useEffect, .env.local, routing w. params etc.

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#### public/index.html (unchanged)

#### src/index.js (now could be slightly changed, or put Router to App.js)

```
src/App.js
```

```
import { Routes, Route, NavLink } from 'react-router-dom';
import './App.css';
import CategoryListView from './views/CategoryListView';
import CategoryDetailsView from './views/CategoryDetailsView';
function App() {
  return (
      <div className="App">
        <nav>
          <span>Extra navbar at top: </span>
          <NavLink to="/category">Categories</NavLink>
        </nav>
        <Routes>
          <Route path="category" element={<CategoryListView />} />
          <Route path="/category/:categoryId" element={<CategoryDetailsView />} />
        </Routes>
      </div>
  );
}
export default App;
src/components/CategoryRow.js
import React from "react";
const CategoryRow = ({category}) => {
    return (<div>{`${category.id} : ${category.name}`}</div>);
}
export default CategoryRow;
src/components/CategoryListItem.js
import React from "react";
import CategoryRow from "../components/CategoryRow";
import {Link} from "react-router-dom";
const CategoryListItem = ({category}) => {
    return (
        <Link to={`/category/${category.id}`}>
                <CategoryRow category={category} />
        </Link>
    );
}
export default CategoryListItem;
```

### src/views/CategoryListView.js

```
import React, {useState, useEffect} from "react";
import CategoryListItem from "../components/CategoryListItem";
import dao from "../ajax/dao";
const CategoryListView = () => {
    const [categories, setCategories] = useState([]);
    useEffect(() => {
        // ...do something ONLY when component did mount
        // Notice: even if categories state change => not fired
        async function refreshCategories () {
            const data = await dao.fetchCategories();
            setCategories(data);
        }
        refreshCategories();
    },[]);
    useEffect(() => {
        // ...do something when 1. component did mount
        // 2. categories state changes
    },[categories]);
    return (
        <>
        <h3>Categories</h3>
        <div>
            {categories && categories.length>0 ?
                categories.map((item)=>
                    <CategoryListItem</pre>
                                          key={item.id}
                                     id={item.id}
                                     category={item} />
            ) : "no categories yet"
        }
        </div>
        </>
    );
}
export default CategoryListView;
```

### src/views/CategoryDetailsView.js

```
import React, {useState, useEffect} from "react";
import {Link, useParams } from "react-router-dom";
import dao from "../ajax/dao";
const CategoryDetailsView = () => {
    const [category, setCategory] = useState([]);
    const {categoryId} = useParams();
    useEffect(() => {
        async function getCategory () {
            const data = await dao.fetchOneCategoryById(categoryId);
            setCategory(data);
        }
        getCategory();
    },[]);
    return(
        <div>
            <h1>Details of a Category</h1>
                <dt>id: {category.id}</dt>
                <dd>name: {category.name}</dd>
                <dd>budget: {category.budgetLimit}</dd>
            </dl>
            <nav>
                <Link to="/category">Back to list</Link>
            </nav>
        </div>
    );
}
export default CategoryDetailsView;
```

#### .env.local --- add that in the root folder of the repo/project

REACT\_APP\_BE\_SERVER\_BASE\_URL=http://localhost:8777/api

## src/ajax/dao.js

```
const baseUrl = process.env.REACT_APP_BE_SERVER_BASE_URL;
const fetchCategories = async () => {
    const request = new Request(`${baseUrl}/category/all`,{
        method: 'GET',
   });
    const response = await fetch(request);
    const data = await response.json();
   return data;
};
const fetchOneCategoryById = async (categoryId) => {
    const request = new Request(`${baseUrl}/category/${categoryId}`,{
        method: 'GET',
    });
    const response = await fetch(request);
    const data = await response.json();
    const category = data && data.length>0 ? data[0] : null;
    return category;
};
export default {
    fetchCategories,
    fetchOneCategoryById,
};
```